

53. (New) A method of establishing a telephony call,  
comprising:

associating a telephone number provided by a first terminal with  
a first Internet protocol (IP) address;

establishing an Internet communication link in a communication  
path between the first terminal and a second terminal using the  
associated first IP address; and

communicating information across the established Internet  
communication link.

54. (New) The method of claim 53, further comprising:

associating a telephone number provided by the second terminal  
with a second IP address, wherein

the Internet communication link is established using the first  
and second IP addresses.

55. (New) The method of claim 53, further comprising:

converting the communicated information into an analog form;  
and reproducing the analog form of the information audibly.

56. (New) The method of claim 53, further comprising  
communicating the information across a first public switched

telephone network (PSTN) link before communicating the information across the Internet communication link.

57. (New) The method of claim 53, further comprising communicating the information across a public switched telephone network link after communicating the information across the Internet communication link.

58. (New) The method of claim 56, further comprising communicating the information across a second PSTN link after communicating the information across the Internet communication link.

59. (New) The method of claim 54, further comprising:  
communicating the telephone numbers provided by the first and second terminals to an IP server, wherein  
the IP server associates the respective telephone numbers with the first and second IP addresses and enables the establishment of the Internet communication link based on the first and second IP addresses.

60. (New) The method of claim 59, further comprising:

communicating the second IP address, provided by a first gateway interconnecting the first terminal with a first network connection of the Internet communication link, to the IP server; and

communicating the first IP address, provided by a second gateway interconnecting the second terminal with a second network connection of the Internet communication link, to the IP server, wherein

the IP server associates the telephone number provided by the first terminal with the first IP address provided by the second gateway and associates the telephone number provided by the second terminal with the second IP address provided by the first gateway.

61. (New) The method of claim 53, further comprising correlating the telephone number provided by the first terminal with a telephone number provided by the second terminal to provide the association between the telephone number provided by the first terminal and the first IP address.

62. (New) A method of establishing a telephony call, comprising:

correlating a first destination telephone number provided by a first terminal with a first origination telephone number provided by a second terminal to associate a first Internet protocol (IP) address with the first destination telephone number;

correlating a second destination telephone number provided by the second terminal with a second origination telephone number provided by the first terminal to associate a second IP address with the second destination telephone number;

establishing an Internet communication link in a communication path between the first and second terminals using the associated first and second IP addresses; and

communicating information across the established Internet communication link.

63. (New) The method of claim 62, further comprising:  
converting the information into an analog form; and  
reproducing the analog form of the information audibly.

64. (New) The method of claim 62, further comprising  
communicating the information across a first public switched telephone network (PSTN) link before communicating the information across the Internet communication link.

65. (New) The method of claim 62, further comprising  
communicating the information across a public switched telephone network link after communicating the information across the Internet communication link.

66. (New) The method of claim 64, further comprising communicating the information across a second PSTN link after communicating the information across the Internet communication link.

67. (New) The method of claim 62, further comprising:  
communicating the second IP address, provided by a first gateway interconnecting the first terminal with a first network connection of the Internet communication link, to an IP server; and

communicating the first IP address, provided by a second gateway interconnecting the second terminal with a second network connection of the Internet communication link, to the IP server, wherein

the IP server associates the first destination telephone number provided by the first terminal with the first IP address provided by the second gateway and associates the second destination telephone number provided by the second terminal with the second IP address provided by the first gateway.

68. (New) A system for establishing a telephony call, comprising:

first and second internet switch box (ISB) terminals;

an Internet protocol (IP) server that associates a telephone number provided by the first ISB terminal with a first IP address;  
and

first and second gateways, in a communication path between the first and second ISB terminals, that establish an Internet communication link using the associated first IP address and communicate information across the established Internet communication link.

69. (New) The system of claim 68, wherein:  
the IP server associates a telephone number provided by the second ISB terminal with a second IP address, and  
the first and second gateways establish the Internet communication link using the first and second IP addresses.

70. (New) The system of claim 68, wherein the second ISB terminal converts the information into an analog form and audibly reproduces the analog form of the information.

71. (New) The system of claim 68, wherein the first ISB terminal communicates the information across a first public switched telephone network (PSTN) link before the first gateway communicates the information across the Internet communication link.

72. (New) The system of claim 68, wherein the second gateway communicates the information across a public switched telephone

network link after receiving the information communicated across the Internet communication link.

73. (New) The system of claim 71, wherein the second gateway communicates the information across a second PSTN link after receiving the information communicated across the Internet communication link.

74. (New) The system of claim 69, wherein:  
the first and second ISB terminals communicate the respective telephone numbers to the IP server; and  
the IP server associates the respective telephone numbers with the first and second IP addresses and enables the establishment of the Internet communication link based on the first and second IP addresses.

75. (New) The system of claim 74, wherein:  
the first gateway communicates the second IP address to the IP server;  
the second gateway communicates the first IP address to the IP server; and  
the IP server associates the telephone number provided by the first ISB terminal with the first IP address provided by the second

gateway and associates the telephone number provided by the second ISB terminal with the second IP address provided by the first gateway.

76. (New) The system of claim 68, wherein the IP server correlates the telephone number provided by the first ISB terminal with a telephone number provided by the second ISB terminal to provide the association between the telephone number provided by the first ISB terminal and the first IP address.

77. (New) A system of establishing a telephony call, comprising:

first and second Internet service box (ISB) terminals;  
an Internet protocol (IP) server that:

correlates a first destination telephone number provided by the first ISB terminal with a first origination telephone number provided by the second ISB terminal to associate a first Internet protocol (IP) address with the first destination telephone number; and

correlates a second destination telephone number provided by the second ISB terminal with a second origination telephone number provided by the first ISB terminal to associate a second IP address with the second destination telephone number; and



first and second gateways, in a communication path between the first and second ISB terminals, that establish an Internet communication link using the associated first and second IP addresses and communicate information across the established internet communication link.

78. (New) The system of claim 77, wherein the second ISB terminal converts the information into an analog form and audibly reproduces the analog form of the information.

79. (New) The system of claim 77, wherein the first ISB terminal communicates the information across a first public switched telephone network (PSTN) link before the first gateway communicates the information across the Internet communication link.

80. (New) The system of claim 77, wherein the second gateway communicates the information across a public switched telephone network link after receiving the information communicated across the Internet communication link.

81. (New) The system of claim 79, wherein the second gateway communicates the information across a second PSTN link after

receiving the information communicated across the Internet communication link.

82. (New) The system of claim 77, wherein:

the first gateway communicates the second IP address, of a first network connection of the Internet communication link, to the IP server; and

the second gateway communicates the first IP address, of a second network connection of the Internet communication link, to the IP server, wherein

the IP server associates the first destination telephone number provided by the first terminal with the first IP address provided by the second gateway and associates the second destination telephone number provided by the second terminal with the second IP address provided by the first gateway.

83. (New) A telephony system comprising:

(a) a first telephone set operable to be connected to a second telephone set over a primary network and a secondary network, the first telephone set comprising a connecting circuit operable to enable connection of the first telephone set to the primary network and the secondary network; and

(b) a server that locates the second telephone set with respect

to the secondary network and that establishes a connection over the secondary network and the primary network between the first telephone set and the second telephone set.

84. (New) The telephony system of claim 83 wherein the primary network is the PSTN and the secondary network is the Internet.